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Jl. Kayumanis, Kel. Balekambang, Kec. Kramat Jati, Kota Jakarta Timur

Software Engineering student at IPB University with a focus on backend development and system design. Experienced in building scalable web applications, adaptable, and eager to learn new technologies. Committed to delivering high-quality solutions and contributing to impactful digital products.

Work Experiences

Kementrian Komunikasi dan Digital Indonesia - Jakarta, Indonesia

Jul 2026 - Present

Software Engineer Intern

SIPRESMA - SMK Madya Depok - Depok, West Java

Jan 2026 - Jul 2026

Project Manager & Deployment

SMK Madya Depok is a vocational high school in Depok, Indonesia, focused on developing students' technical and professional competencies through industry-oriented education. The school provides practical learning experiences in fields such as software development, information technology, and digital innovation, preparing students for higher education and professional careers.

- Led the development of a web-based attendance management system for SMK Madya Depok using Laravel, Inertia.js, and React.
- Managed project planning, task allocation, timeline tracking, and communication among team members throughout the development lifecycle.
- Defined system requirements and coordinated the implementation of attendance features, including geolocation validation, image capture verification, and QR code-based attendance.
- Oversaw project progress and ensured alignment between functional requirements and technical implementation.
- Coordinated testing, bug tracking, and system improvements before production deployment.
- Managed application deployment, server configuration, and production environment setup.
- Monitored system performance and deployment stability to ensure reliable operation for students and administrators.
- Collaborated with developers and stakeholders to gather feedback and continuously improve the system.

PT. CervoSys Solusi Nusantara - Bogor City, West Java

Jun 2025 - Dec 2025

Backend Developer – Academic Project

A comprehensive digital reservation platform designed to streamline and digitize the management of laboratory equipment and classroom facilities at the College of Vocational Studies, IPB University. This system replaces manual processes with a seamless, automated workflow to enhance operational efficiency.

- Developed e-LABS+, a centralized system aimed at digitizing resource management for thousands of vocational students.
- Engineered robust backend services using TypeScript and Express.js, ensuring type safety and high maintainability of the codebase.
- Designed and optimized the database schema to handle complex reservation logic, equipment tracking, and user role management.
- Implemented RESTful APIs to facilitate smooth integration between the management dashboard and the student-facing reservation interface.
- Simplified administrative workflows by automating the approval process and providing real-time availability tracking for lab assets.
- Collaborated on system deployment to ensure high availability and performance during peak academic reservation periods.

MAUNA V.1– Sign Language Learning Platform - Purwokerto, Central Java

Oct 2025 - Nov 2025

Full-Stack Developer - Competition Project (Hybrid)

Machine learning-powered web platform for sign language education. Features real-time gesture recognition, interactive learning modules, SIBI library, AI-driven practice lab, and gamified elements to enhance accessibility and engagement.

- Developed MAUNA, a sign language learning platform aimed at improving accessibility in communication
- Engineered backend systems using FastAPI and PostgreSQL
- Designed and implemented scalable architecture for handling learning modules and user interactions
- Worked collaboratively in a fast-paced hackathon environment to deliver a functional and impactful solution
- Integrating Backend / Systems using NextJs with a optimized performance.

AGRIDATION 2025 - Competition Management Platform - Bogor City, West Java

Feb 2025 - Oct 2025

Lead Backend Developer

AGRIDATION 2025 – Lead Backend Engineer for a national agricultural competition platform. Developed and maintained scalable backend infrastructure with Laravel and RESTful APIs, managing participant selection, evaluation, and seamless frontend integration.

- Led backend development and system architecture design
- Built and maintained RESTful APIs using Laravel
- Designed database structure to handle participant data and evaluation workflows

- Implemented business logic for participant selection and scoring system
- Ensured system scalability, performance, and maintainability
- Collaborated with frontend team for seamless API integration
- Coordinated backend development and guided technical decisions within the team
- Ensured code quality and best practices in backend development

HeyCow - Bogor City, West Java

Aug 2024 - Dec 2024

Academic Project- Frontend Developer

HeyCow! – Frontend Developer for a cattle management platform. Developed and optimized the UI with Next.js, integrated frontend with backend services, and implemented responsive designs focused on performance and scalability.

- Built scalable frontend architecture using Next.js
- Integrated RESTful APIs for efficient data communication
- Implemented responsive UI with a focus on usability and performance
- Optimized rendering and component structure for maintainable codebase
- Supported core cattle management features through seamless frontend-backend integration

StartCode Tech Digital - Cibinong, West Java

Nov 2024 - Feb 2025

Full-Stack Developer

Developed SIMPOL v2.0, a web-based information management system for building permit administration in the Cibinong area, Bogor Regency, Indonesia. Responsible for designing and implementing both frontend and backend systems, ensuring efficient data handling, user-friendly interfaces, and reliable system performance.

- Developed key features for SIMPOL v2.0, a web-based building permit management system
- Implemented a data duplication feature to streamline administrative workflows
- Built a document generation system to enable users to print official building permit letters directly from the website
- Developed an advanced search functionality with multi-variable validation for accurate document retrieval
- Utilized PHP and Laravel 11 for backend development and system architecture
- Performed ongoing maintenance, bug fixing, and system improvements to ensure stability and performance

JR Konveksi - Depok, West Java

Nov 2025 - May 2026

Freelance - Full-Stack Developer

Tailoring Business Web App – Fullstack web application for managing orders and showcasing products, featuring an online ordering system, admin dashboard, and product gallery. Focused on responsive design, user experience, and system reliability.

- Engineered a fullstack web platform for a tailoring business with features including order management, admin dashboard, and product gallery
- Developed backend logic and RESTful APIs to handle order processing and data management
- Built responsive frontend interfaces to enhance user experience across devices
- Designed scalable system architecture to support business growth and operational efficiency
- Performed ongoing maintenance, debugging, and performance optimization

Education Level

IPB University  - Bogor City, Bogor, West Java

Aug 2023 - Aug 2027 (Expected)

Bachelor of Applied Science in Software Engineering, 3.51/4.00

- 1st Place – Business Plan Competition, organized by Universitas Negeri Jakarta
- 1st Place – Web Development Competition, ITASE, organized by Telkom University Purwokerto Campus
- 1st Runner-Up – FIT Competition (Web Development), organized by Universitas Kristen Satya Wacana
- Participant – Student Creativity Program (PKM)
- Participant – Student Creativity Program KC (Technical Innovation)
- Participant – Indonesian Vocational Olympiad (OLIVIA) – Web Development

Organisational Experience

HIMAVO Micro IT - Bogor City, Bogor, West Java

Nov 2024 - Nov 2025

Head of Multimedia Division

- Led the Multimedia Division for the 2024/2025 period, managing creative and digital content initiatives
- Oversaw planning, execution, and coordination of multimedia-related projects
- Managed team collaboration and ensured high-quality output across design and media production
- Strengthened leadership, project management, and team coordination skills

HIMAVO Micro IT - IT FEST is an annual technology competition organized by HIMAVO Micro IT Community, aimed at providing a platform for students to showcase their skills, compete in various IT-related fields, and foster innovation and collaboration in the technology sector.

Mar 2025

Competition Staff – IT FEST 2025

- Contributed to the organization of IT FEST 2025, a large-scale technology event
- Managed finalist coordination and provided guidance during the final competition stage
- Assisted in event execution, ensuring smooth operation and participant experience
- Collaborated with cross-functional teams in a fast-paced environment

HIMAVO Micro IT - Bogor City, Bogor, West Java

Jan 2025

Steering Committee – Micro Techno Education (MTE)

- Oversaw the execution of Micro Techno Education (MTE) as the responsible authority for the program
- Monitored and guided the Chief Organizer in planning and implementing the program
- Ensured alignment of activities with organizational objectives and timelines
- Coordinated with multiple divisions to maintain effective program delivery
- Evaluated program progress and provided strategic direction to improve outcomes

HIMAVO Micro IT - Bogor City, Bogor, West Java

Sep 2023

Webmaster Division Member

- Gained hands-on experience in web development through active involvement in the Webmaster Division
- Contributed to building and maintaining web applications using HTML, CSS, and JavaScript
- Collaborated in team-based development to enhance internal systems
- Developed foundational knowledge in frontend development and web technologies

Skills, Achievements & Other Experience

- **Projects** 🕒 (2026): Developed an AI-powered Indonesian lip reading application that converts lip movements into text using computer vision and deep learning. Built a custom dataset from scratch, including data collection, annotation, preprocessing, and validation. Implemented a lip detection pipeline using MediaPipe and OpenCV, then trained visual speech recognition models to recognize Indonesian words and sentences from video input. Technologies used include Python, OpenCV, MediaPipe, and Deep Learning.
- **Soft Skills** 🕒 (2026): Introduction to Financial Literacy - DBS Program Dicoding
- **Projects** 🕒 (2025): Mauna
- **Projects** 🕒 (2026): JR Konveksi Remake
- **Hard Skills** 🕒 (2025): Memulai Pemrograman Dengan Java
- **Hard Skills** 🕒 (2025): Memulai Pemrograman dengan Python
- **Hard Skills** 🕒 (2025): Basic Go-Lang for Back-End Developer
- **Projects** 🕒 (2025): AGRIDATION 2025
- **Hard Skills** 🕒 (2025): Belajar Dasar Visualisasi Data
- **Achievements** 🕒 (2025): Won 1st place in the ITASE Web Development Competition organized by Telkom University Purwokerto in 2025, demonstrating skills in full-stack web development, problem-solving, and innovative project implementation.
- **Soft Skills** 🕒 (2025): Financial Literacy 101 (Advance)
- **Achievements** 🕒 (2024): Nominated for 1st runner-up in the Web Development Competition at FIT Competition, Universitas Kristen Satya Wacana in 2024, recognized for technical skills and innovative project implementation.
- **Hard Skills** 🕒 (2024): Belajar Dasar Pemrograman JavaScript
- **Hard Skills** 🕒 (2024): Belajar Back-End Pemula dengan JavaScript
- **Hard Skills** 🕒 (2024): Belajar Dasar AI
- **Achievements** 🕒 (2024): 1st place winner in the Business Plan Management Competition at Universitas Negeri Jakarta in 2024, demonstrating strategic planning, business modeling, and presentation skills.
- **Achievements** 🕒 (2023): Japanese Language Proficiency Test - N5